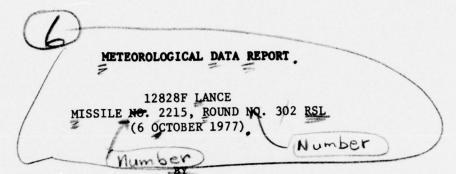


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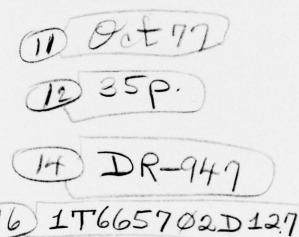
DR-947 October 1977



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WOMR METEOROLOGICAL TEAM



ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO





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UNITED STATES ARMY ELECTRONICS COMMAND

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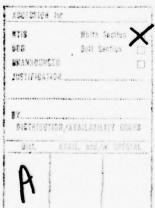
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REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
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. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED
12828F Fance	202 707	
Missile Number 2215, Round Number	302 KSL	6. PERFORMING ORG. REPORT NUMBER
. AUTHOR(e)		8. CONTRACT OR GRANT NUMBER(a)
WSMR Meteorological Team		DA Task 1T665702D127-02
PERFORMING ORGANIZATION NAME AND ADDRES	S	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
		AREA & WORK ON!! NOMBERS
1. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
US Army Electronics Command	/	October 1977
Atmospheric Sciences Laboratory	V	13. NUMBER OF PAGES
White Sands Missile Range, New Me	xico	38
4. MONITORING AGENCY NAME & ADDRESS(II dittor	ent from Controlling Office)	15. SECURITY CLASS. (of this report)
US Army Electronics Command		UNCLASSIFIED
Ft. Monmouth, New Jersey		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
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Approved for public release; dist	ribution unlimited	1.
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INTRODUCTION

12828F Lance, Missile Number 2215, Round Number 302 RSL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0849 HRS MDT, 6 October 1977. The scheduled launch time was 0830 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,980	FEET/MSL
PRESSURE	884.9	MBS
TEMPERATURE	20.5	°c
RELATIVE HUMIDITY	86	%
DEW POINT	18.1	°c
DENSITY	1,040	GM/M ³
WIND SPEED/DIR	CALM	MPH/DEG
CLOUD COVER	10	Ac

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33, 0845 HRS MDT/6 OCTOBER 1977.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)		HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM	CALM		2100	180	7.0
100	225	1.5		2200	185	7.5
200	225	3.0		2300	185	7.5
300	230	4.5	-10121	2400	180	5.0
400	230	5.5		2500	180	4.5
500	225	6.5		2600	170	6.5
600	225	7.0		2700	175	7.5
700	205	6.0		2800	190	11.0
800	185	7.0		2900	180	10.0
900	175	5.5		3000	155	11.0
1000	175	5.5		3100	160	10.0
1100	150	10.0		3200	165	12.0
1200	160	12.0		3300	170	10.0
1300	150	11.0		3400	170	9.0
1400	155	11.0		3500	175	12.0
1500	160	10.0		3600	175	13.0
1600	170	9.0		3700	170	12.0
1700	i70	9.0		3800 .	170	11.0
1800	185	8.0		3900	190	10.0
1900	185	8.0	i ma	4000	190	11.0
2000	170	6.5	000.00	4100	185	11.0

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0836 HRS MDT/6 OCTOBER 1977
12828F LANCE, MISSILE NO. 2215, ROUND NO. 302 RSL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SE OF LAUNCHER.

/		
HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	190	9.0
4300	200	14.0
4400	195	14.0
4500	195	14.0
4600	185	14.0
4700	200	16.0
4800	190	13.0
4900	200	14.0
5000	205	12.0
5100	210	10.0
5200	210	9.0
5300	205	9.0
5400	200	8.0
5500	195	10.0
5600	200	8.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5700	210	10.0
5800	220	8.0
5900	230	8.0
6000	215	8.0
6100	215	7.0
6200	210	10.0
6300	205	8.0
6400	220	8.0
6500	215	10.0
6600	220	12,0
6700	210	12.0
6800	200	11.0
6900	215	10.0
7000	210	10.0
7100	210	10.0

TABLE II. (CONT)

			ſ			
EIGHT FEET)	DIRECTION (DEGREES)	SPEED (MPH)		HEIGHT (FEET)	DIRECTION (DEGREES)	SPE (MF
SUR	CALM	CALM		2100	186	8
100	204	1.0		2200	184	8
200	207	1.0		2300	182	8
300	212	2.0		2400	180	8
400	217	2.5		2500	180	8
500	200	3.0		2600	180	8
600	180	3.5		2700	176	9
700	161	5.5		2800	171	9
800	143	7.5		2900	166	10
900	143	8.5		3000	162	10
1000	143	10.0		3100	161	11
1100	145	10.5		3200	161	12
1200	148	11.0		3300	165	13
1300	148	11.0		3400	168	14
1400	148	11.0		3500	169	14
1500	156	10.0		3600	171	13
1600	167	9.0		3700	173	11
1700	174	9.0		3800	175	10
1800	180	8.5		3900	180	11
1900	184	8.0		4000	185	12
2000	188	7.5		4100	184	13.

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 0849 HRS MDT/6 OCTOBER 1977
12828F LANCE, MISSILE NO. 2215, ROUND NO. 302 RSL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,296.83 Y = 185,251.85 Z = 3,986.67

APPROXIMATELY: 815 FEET SE OF LAUNCHER

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	182	13.0
4300	184	12.5
4400	185	12.0
4500	188	11.5
4600	190	11.0
4700	195	11.0
4800	200	11.5
4900	199	11.0
5000	199	10.5
5100	194	9.5
5200	180	9.0
5300	180	8.0
5400	180	7.0
5500	190	8.0
5600	201	8.5
5700	207	8.0
5800	212	7.5
5900	212	7.5
6000	212	7.5
6100	211	8.0
6200	210	8.0
6300	207	8.0
6400	204	8.5
6500	196	9.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	189	9.0
6700	194	9.0
6800	198	9.5
6900	200	10.0
7000	203	10.5
7100	202	11.0
7200	202	11.0
7300	201	11.5
7400	200	11.5
7500	202	12.0
7600	203	13.0
7700	206	14.0
7800	208	14.5
7900	211	15.5
8000	213	16.5
8100	215	17.0
8200	217	17.5
8300	220	18.5
8400	224	19.5
8500	228	20.0
8600	231	20.5
8700	231	20.5
8800	231	20.5
8900	229	20.5

TABLE III. (CONT)

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	227	20.5
9100	226	20.0
9200	224	20.0
9300	225	20.5
9400	227	20.5
9500	229	21.5
9600	231	22.0
9700	231	22.0
9800	231	22.5
9900	233	22.5
10000	234	23.0
10100	236	23.5
10200	238	23.5
10300	238	24.0
10400	238	25.0
10500	238	25.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
10600	238	24.5
10700	235	26.0
10800	233	27.5
10900	232	27.0
11000	231	27.0
11100	230	26.0
11200	230	25.5
11300	229	26.5
11400	229	27.5
11500	230	28.0
11600	230	28.0
11700	229	28.0
11800	228	28.5
11900	227	28.5
12000	226	28.5

TABLE III. (CONT)

STATION ALITIUDE 3951.40 FEET MSL 6 OCT. // 0730 HRS MDT ASSEMSION NO. 105

SIGNIFICANT LEVEL DATA 2790050105 APACHE TABLE IV.

GEODETIC COOKDINATES 32.62700 LAT DEG 106.39352 LON DEG

REL.HUM. PERCENT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RATURE DEWPOINT CENTIGRADE	11110 1110 1110 1110 1110 1110 1110 11
TEMPERATUR AIR DEWPO DEGREES CENTI	117. 117. 117. 117. 117. 117. 117. 117.
SEOMETRIC ALTITULE MSL FELT	5951.4 4364.8 5098.2 7650.9 8355.0 3753.7 10478.9 14361.5 15553.4 1750.8 1304.4 1750.8 1309.4 1727.6 31727.6 31727.6 31727.6 31727.6 31727.6 31727.6
PRESSUAL MILLISARS	488 475 775 775 775 775 775 775 775

INDEX OF REFRACTION	1.000318	1.000317	1.000309	1.000000	1.000295	1.000290	1.000285	1.000260	1.000275	1.000265	1.000255	1.000248	1.000240	1.000232	1.000225	1.000221	1.000217	1.000214	1.000210	1.000206	1.000203	1.000199	1.000195	1.000188	1.000185	1.000183	1.000180	1.000179	1.000175	1.000170
SPEED KNOTS	0.	•	•	•	10.0	14.9	13.9	14.3	13.1	11.2	8.4	6.8	6.5	6.9	7.7	8.3	9.3	10.9	12.8	14.6	16.0	17.3	17.2	17.3	17.7	18.6	19.5	19.8	20.1	20.5
WIND DA UIRECTION UEGREES(IN)	٥.	~	75.	0	75.	12	13.	73.	73.	•	•			189.2	190.0	201.6	212.2	223.1	228.0	•	•	•	21.	-	16.	18.	23.	32.	41.	50.
5000	60009	9.309	667.2	2.999	.99	65.	2.499	663.3	662.4	661.5	2.099	9.659	658.3	6.969	655.6	654.5	653.4	652.3	651.3	650.2	1.649	0.849	6.949	645.7	4.440	643.0	641.5			•
DENSITY S GM/CUBIC MLTER	0.5	1051.0	1031.1	1014.0	8.865	985.7	6.896	954.3	0.040	925.7	911.3	4.768	685.2	872.7	860.4	847.4	834.5	851.8	609.3	797.1	785.0	773.1	761.4	749.0	738.7	727.9	717.5	705.4	. 46	3
KEL.HUM. PERCENT	t.	93.2	86.0	91.6	82.4	84.5	85.9	87.7	69.5	82.6	75.4	73.6	4.69	65.1	61.1	62.7	4.49	66.1	67.7	1.60	71.1	72.7	72.0	63.3	65.8	72.3	78.8	0	7	6
EKATORE DEWPOINT CENTIGRADE	9	7.91	15.0	14.5	14.0	13.5	13.1	12.7	12.2	10.5	8.6	7.5	2.6	3.7	1.9	1.4	6.	4.	-:-	7	-1.2	1.8	-2.8	•	•				0.9-	-8.3
TEMP AIM DEGREES	17.2	17.0	17.9	17.7	17.0	16.2	15.5	14.7	13.9	13.4	12.8	12.0	11.0	10.0	0.6	8.1	7.1	2.9	5.3	4.4	3.5	5.6	1.7	8.	5	-1.5	-2.1	-3.5	-4.3	-5.3
PRESSURE TILLIGARS	885.6	443.1	2.600	d55.0	837.9	623.0	808.4	194.1	730.0	1.997	152.4	134.0	125.5	/14.5	4.669	596.5	075.9	661.4	7.649	637.3	655.5	614.0	0.200	294.3	280.1	269.6	550.4	241.8	537.5	527.0
GEUMETRIC ALLITUDE MSC PEET N	3951.4	4000.0	4500.0	9.000c	0.00cc	0.0009	0.0000	7000.0	0.0007	80000	920000	9.0006	0.0006	10000.0	10500.0	11000.0	11500.0	12000.0	1,000	13000·0	13500° U	14000.0	0.00041	15000.0	15500.0	16000.0	0.00001	17000-0	17500.0	14000-0
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DENSITY SPEED OF WIND DATA AIM DEMPONT PERCENT GMZCUBIC SOUND DIRECTION SPEED OF MILLIGAMS DEGREES CENTIGRADE METER KNOTS DEGREES (TN) KNOTS REFERENCES 17.2 16.2 94.0 1055.7 660.5 175.4 .3 175.4 .3 175.4 17.0 14.0 825.0 1031.1 667.2 175.4 175.4 3.5 175.4 175.4 175.7 14.5 81.6 1031.1 667.2 175.4 175.5 175.4 17	C PRESSURE FEMPERATURE FELCHUM DENSITY SPEED OF WIND DATA AIR DEMPOINT PERCENT GMZCUBIC SOUND DIRECTION SPEED OF WIND DATA AIR DEMPOINT PERCENT GMZCUBIC SOUND DIRECTION SPEED OF WIND DATA AIR DEMPOINT PERCENT GMZCUBIC SOUND DIRECTION SPEED OF WIND DATA NATURE AIR SOUND 1055.7 660.5 175.4 3.5 175.4 14.5 41.6 10.14.5 660.6 175.4 175.6 175.4 175.9 13.9 13.9 12.2 89.5 940.0 662.4 175.2 175.9 13.9 175.4 175.5 175.4 175.5 175.4 175.5 175.9 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5 175.4 175.5	C PRESJURE FEMPERATURE FELHUM. DENSITY SPEED OF WIND DATA AIM DEMPORT PERCENT GMCCUBIC SOUND DIRECTION SPEED OF MILLIAMYS DEGREES (TN) FINANCES LIGHT FANOTS DEGREES (TN) FINANCES LIGHT FOR SPEED OF MILLIAMYS DEGREES (TN) FINANCES LIGHT FOR SPEED OF SASSOUTH FOR	C PRESJUKE FEMPERATURE REL-HUM. DENSITY SPEED OF WIND DATA AIM DLAMPOINT PERCENT GMCUBIC SOUND DIRECTION SPEED OF MILLIGARYS DEGREES CENTIGRADE METER KNOTS DEGREES (TN) KNOTS REFERENCE IT.S 16.2 94.0 10.53.7 660.5 175.4 3.5 175.4 653.0 17.7 14.5 84.0 10.14.3 660.0 175.4 6.7 175.4 6.7 175.4 10.0 837.9 17.0 14.0 82.4 998.8 666.0 175.4 6.7 175.4 6.7 10.0 837.9 175.4 10.0 825.0 17.7 14.5 84.2 998.8 666.0 175.4 6.7 12.9 13.9 13.9 13.9 13.9 13.9 13.9 13.9 13	C. PRESJUKE FEMPERATURE REL.HUM. DENSITY SPEED OF WIND DATA AIM DLAMPOLNT PERCENT GMCOBIC SOUND DIRECTION SPEED OF MILLIGAMYS DEGREES CENTIGRADE NETER KNOTS DEGREES(TN) KNOTS REFERENCES (TN) KNOTS R	C. PRESJUKE FEMPERATURE REL.HUM. DENSITY SPEED OF WIND DATA AIM DAMPOINT PERCENT GMCCUBIC SOUND UIRECTION SPEED OF MILLIAMYS DEGREES CENTIGRADE NETER KNOTS ULGREES(TN) KNOTS REFERENCES (TN) TO SPEED OF SOUND UIRECTION SPEED UIRECTION SPEED OF SOUND UIRECTION SPEED OF SEED OF SOUND UIRECTION SPEED OF SEED OF	Color Colo	Colored Femperature Fell-Hum. Density Speed of WIND DATA	PRESJURE TEMPERATURE FEL.HUM. DENSITY SPEED OF WIND DATA	Column	PRESJUKE TEMPERATURE REL.HUMM DENNSITY SPEED OF WIND UDTA	PRESJUKE TEMPERATURE REL.HUM, DENSITY SPEED OF WIND UATA	PRESJUKE CEMPERATURE CEMPERATURE CEMPERATURE CEMPERATURE CEMPERATURE CEMPOSINT DEMOSINT SPEED CEMPERATURE CEMPOSINT DEMOSINT CEMPERATURE CEMPOSINT CEMPOSINT CEMPERATURE CEMPOSINT CEMPOSI	PRESSURE TEMPERATURE PERCENT GM/CUBIC SOUND UJRECTION SPEED SPEED	## PRESJURE TEMPERATURE REL.HUM. DENSITY SPEED OF WIND WATA RANGES AIM DLELGAMES DEGREES CENTIGRADE METER RADIAS COUND CAGE COUND SPEED COUNDS. CAGE C	PRESSURE FEMPERATURE PERCENT GW/CUBIC SOUND DIRECTION SPEED NILLIGARY DEGREES CENTIGRADE NILLIGARY NILLIGARY DEGREES CENTIGRADE NILLIGARY NILLIGARY

	UPPER AIR DATA	
STATION ALTITUDE 3951.40 PEET MSL	2790050105	SEODETIC COORDINATES
6 OCT. 77 0730 HRS MDT	APACHE	32.02700 LAT DEG
ASCENSION NO. 105	TABLE V. (CONT)	106.39352 LON DEG

INDEX OF REFRACTION	16	.00016	0	1.000155	2	1.000148	t	#	K)	1.000136	2	1.000131	N	.00012	AI	_	-	1.000113	.00011	-	010	0	010	0	6	60	1.000096	0	1.000093
SPEED KNOTS	22.1	25.0	55.4		•	•					•	32.0			•	•			•		•								•
wind DAT DIRECTION DEGREES(IN)	255.9	58.	9	0	94.	2	•	243.8			546.4	250.4	253.9	522.9	257.7	•	201.0	•		262.2		63.	63.	. 40	264.7	204.7	19	263.6	262.9
SOUND KNOTS	637.1	634.9		632.7		630.1	628.8	4.7.20	620.1	624.7	623.4	622.0	9.079	619.2	617.7	616.4	615.3	614.1	613.0	6119			608.1			604.5	3	601.8	0
DENSITY S GM/CUBIC MLTER	073.2	5	41.	31.	621.1	11.	601.7	592.5	585.9	573.7	264.7	555.9	547.2	538.5	530.0	521.3	512.4	503.5	8.464	486.3	477.9	469.8	462.0	454.5	46.	8	430.5		9
REL.HUM. PERCENT	78.5	5	•	œ	•	5					81.5	40.7			28.3			12.4			10.3	8.0**	2.9**		**5.				
TEMPERATURE R DEWPOINT RES CENTIGRADE	1-9-4	-8.7	-10.0	-11.4	-12.7	-13.9	-15.1	-16.2	-17.4	-18.6	-19.8	•	-22.7	-27.9		-43.0			-		-40.5		-55.5		-74.5				
TEMP AIN DEGREES	-6.3	-8.5	0.6-	6.6-	-10.9	-12.0	-13.1	-14.2	-15.2	-16.5	-17.4	-18.5	-19.6	-20.7	-21.8	-22.9	-23.8	1-4-7	-25.6	-26.5	-27·4	-28.4	-29.5	-20.6	51.7	-32.5	-33.5	-34.5	-35.8
PRESSURE	510.0	0.764	487.5	477.8	4.89+	459.1	440.0	れ・ロナセ	432.1	420.5	415.1	400.3	398.0	390.0	382.5	374.0	366.8	228.5	351./	344.4	337.2	330.2	323.4	316.3	208.0	305.0	7967	283.9	283.0
SECMETRIC ALITIUDE MSC PEET	0.00061	1.0061	C00000	7.00002	0.00012	<1500·n	22000.0	75200.0	43000.0	23500.0	0.00042	0.00542	25000.0	0.00052	26000.0	0.00097	47000.0	0.00527	78000.0	0.00082		0.00067	0.00000	0.00000	0.00010	0.00010	2200000		33000.0

IN THE INTERPOLATION. WAS USED AI LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE

	STATION ALTIN 6 OCT. // ASCENSION NO.	.TIIJDE 395	STATION ALTITUDE SYST.40 FEET MSE 6 OUT. 77 ASCENSION NO. 145	TA	UPPER AIR DATA 2790050105 APACHE TABLE V. (CONT)	4 + 1 - C		32.0 32.0 106.3)ETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG	
	GEUMLTRIC ALIIIULE MSL FEE!	PRESSUME MILLIDAMS	LEMPERATURE AIK DEMPOINT UEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC McTER	SPEED OF SOUND ANGTS	WIND DATA UIRECTION S UEGREES(IN) K	SPEED KNOTS	INDEX OF KEFRACTION	
	33500.0	6.172	-37.0		409.1	598.7	262.1	•	1.000091	
	0.000+0	271.3	-38.2		402.5		262.0	55.4	1.000090	
	0.000+0	263.3	-39.5		395.5	595.5		53.3	1.00008	
	0.00050	253.5	1.01-		580.7		203.0	56.1	1.000087	
	25500.0	253.8	-42.0		382.4		264.7	59.5	1.000085	
	30000.0	248.5	-43.2		375.9		265.5	62.8	1.000084	
	36500·u	547.0	1+++1		369.3		260.3	•	1.000082	
	37000.0	230.9	-45.6		362.7		5007	62.8	1.000081	
	37500.0	231.4	6.04-		356.5		200.7	9.09	1.000079	
	38000·0	220.1	-48.1		350.0		4.997	29.7	1.000078	
	28506.0	450.3	5.61-		343.9		2,997	29.9	1.000077	
	0.00060	212.8	-50.6		337.8		7007	63.0	1.000075	
	39500.0	210.9	-51.8		331.9		200.0	66.5	1.000074	
	40000.0	200.0	-53.0		326.1		204.7	7.07	1.000073	
	0.00004	201.3	-54.3		320.4		263.0	73.0	1.000071	
_	41000.0	190.0	-55.6		314.7		202.7	73.5	1.000070	
	41500.0	191.1	-57.0		309.0		263.3	72.2	1.000069	
	42000.0	187.0	-54.5		503.5	570.8	204.1	70.0	1.000068	
	42500.0	182.5	-59.9		298.1		7.497	66.3	1.000066	
	43000.0	178.1	-01.3		292.8		265.0	65.0	1.000065	
	43500.0	173.1	-62.7		287.0		265.1	6.49	1.000064	
	0.000++	109.5	-64.1		282.5		266.1	67.2	1.000063	
	44500.0	165.4	-65.5		277.5		267.3	0.69	•	
	45006.0	161.4	6.09-		272.0		7.697	69.8	1.000061	
	45500.0	157.3	-08.1		267.4			70.8	1.000060	
	40000.0	155.4	2.60-		261.9		471.1	71.9	1.000058	
	40200.0	149.5	-70.3		256.7	55			1.000057	
	47000.0	145./	-71.4			53.			1.000056	
	47500.0	141.9	-72.5		•				1.000055	

STATION ALTITUDE SYST. 40 FEET MSC 6 OCT. 77 0730 HRS NDT ASCASION AU. 105

MANDATORY LEVELS 2790050105 APACHE TABLE VI.

GEODETIC COORDINATES 32.62700 LAT DEG 106.39352 LON DEG

00

PRESSURE GEOPCIENTIAL	LOPCIENTIA		TEMPERATURE	REL.HUM.	UNIND	DAT
		AIR	DEAPOINT	PERCENT	UIRECTION	N SPEEC
LLIBAKS	FEET	DEGREES	DEGREES CENTIGRADE		DEGREES (TN)	
550.0	5097.	17.6	14.3	91.	175.4	7.4
800.0	6790.	15.0	12.9	87.	173.3	14.6
750.0	8587.	12.7	9.0	70.	180.0	4.9
700.0	10479.	0.6	1.9	.19	190.5	7.7
656.0	12483.	5.4	-:1	68.	229.0	12.8
60000	14616.	1.5	-3.4	70.	220.6	17.2
550.0	.00691	-3.3	-5.2	87.	230.6	19.7
500.0	19557.	6.7-	-8.3	97.	259.0	24.7
450.0	22023.	-13.1	-15.0	85.	540.9	24.5
400.0	24935.	-19.4	-22.0	80.	253.7	35.5
350.0	28149.	-25.8	0.74-	12.	262.4	41.2
300.0	51761.	-32.6			564.6	47.3
250.0	35886.	-45.8			265.5	4.29
200.0	40099.	-54.6			263.1	73.2
175.0	43455.	-62.3			265.2	65.1
150.0	46510.	-70.1				

SIGNIFICANT LEVEL DATA	2790010704	HOLLOMAN	TABLE VII.
	STATION ALTITUDE 4126.59 FEET MSL	6 OCT. 77 0820 HRS MDT	ASCENSION NO. 704

GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG

RÉL PER	
TEMPERATURE AIR DEWPOINT	מרטורה הרייים הויים
GEOMETRIC ALTITUDE MSI FFFT	
PRESSURE MILL TRABS	200000000000000000000000000000000000000
	GEOMETRIC TEMPERATURE ALTITUDE AIR DEWPOINT MSI FFET DEGREES CENTIGRADE

PRESSURE	GEOMETRIC ALTITUDE	AIR	WPOINT	REL.HUM. PERCENT
ILLIBARS	SL PEE	\propto	<u></u>	
880.1	9	5	-	81.0
	495.	•	•	86.0
850.0	1111	6	5	0.97
741.8	606		•	0.46
723.3	9601.5	10.1	7.3	83.0
90		•	•	61.0
200.0	10494.4	8.9	•	
8		•	•	62.0
8		۴.	-5.9	3.
6		•	-5.2	88.0
6		-5.5	•	Š
0		•	-11.7	77.0
8	20520.5		-15.5	•
5.		-17.8	ò	65.0
		•	-	5
•		•	-	45.0
٥.		•	-27.6	6
s.		•	8	32.0
12			9	-
٠.			-48.8	15.0
•		-32.7		
•		8		
•		-53.5		
80		-		
	46539.4	8		
.3	47566.0			
6.	50048.4	8		
5.	53251.4	-71.0		
0.00	54435.6	-70.0		
85.8	58072.4	-73.3		

STATION ALTITUDE 4126.59 FEET MSL 6 OCT. 77 0820 HRS MDT ASLENSION NO. 704

SIGNIFICANT LEVEL DATA 2790010704 HOLLOMAN

GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG

TABLE VII. (CONT)

REL.HUM. PERCENT

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-56.9 -52.9 -45.8 -64.1 61354.4 66097.0 68157.9 78801.2 87365.1 94558.8

70.0 55.3 50.0

20.0

PETIC COORDINATES 32-88865 LAT DEG 106-09965 LON DEG	INDEX OF REFRACTION		1.000297 1.000291 1.000285	1.000268	1.000247 1.000247 1.000230 1.000220 1.000217	1.000213 1.000208 1.000204 1.000200 1.000196	1.000185 1.000183 1.000181 1.000178 1.000167 1.000167
GEODETIC 32.8 106.0	SPEED KNOTS	3.1	111111111111111111111111111111111111111		0 0 0 0 0	11111111111111111111111111111111111111	
	WIND DATA DIRECTION S DEGREES(TN) K	68.	168.9 170.0 172.8 175.9	179.6 181.5 181.0	192.8 203.1 214.0 218.4	2226 2326 2336 2336 2336 2336 2336 2336	225.4 226.0 229.1 233.8 241.7 251.1
ATA 14	SPEED OF SOUND KNOTS		668.4 665.9 4.653.4		657.5 655.5 655.5 655.5 654.7	6513.1 6513.1 650.7 649.5 648.2 647.0	64444 64444 64444 6499 6499 6499 6499 6
UPPER AIR DATA 2790010704 HOLLOMAN TABLE VIII.	DENSITY S GM/CUBIC METER	2110	992.0 978.8 965.7 952.9	940.2	887.8 887.8 874.4 861.2 847.6 834.1	820.9 808.5 796.5 784.6 772.9 761.4	738.9 728.0 717.3 706.6 695.6 684.8
_	REL.HUM. PERCENT	81.0 85.9 77.8	82.6 84.9		60.9 60.9 60.6 61.3	6688.19 688.49 688.49	65.9 73.7 86.4 76.4 66.5
T MSL	ERATURE DEWPOINT CENTIGRADE	11.8 15.5 15.6	15.0 14.2 13.5	111.9	11.00	111111	
26.59 FEET 0820 HRS MDT	TEMPI AIR DEGREES	15.0 17.9 19.5	18.9 17.7 16.5	12.8	10.2 9.7 8.8 7.5	004841 0000000	16.50
UDE 41	PRESSUME TEM AIR MILLIBAMS DEGREES	880.1 868.0 853.0	823.3 823.3 808.7	780.5	726.U 712.8 699.4 687.1	662.2 649.4 637.6 625.4 614.3	569.0 569.0 569.0 548.4 527.4
STATION ALTIT 6 OCT. 77 ASCENSION NO.	GEUMETRIC ALIITUDE MSL FEET	4126.6 4500.0 5000.0	0.000.0 6.000.0 7.000.0	7500.0 8000.0 8500.0	9500.0 10000.0 10500.0 11000.0	12000.0 12500.0 13000.0 14000.0 14500.0	15500-0 16000-0 17000-0 17000-0 18500-0

DETIC COORDINATES 32-84865 LAT DEG 106-09965 LON DEG	INDEX OF KEFRACTION	.0001	.00015	1.000150	.00014	t	•	1.000139	•	•	•		1.000125	•	1.000119	•	•	•	1.000111	•	•	•	1.000103		-	-	-	1.000094	•	
GEODETIC 32-8 106-0	DATA SPEED	26.1	27.6	29.8	30.4	31.3	32.2	32.1	31.9	31.4	31.6	33.1	34.6	36.0	36.8	36.9	38.4	41.9	9.44	45.7	45.8	t. 11	43.8	45.0		48.3			24.4	55.0
	WIND DA		258.4		250.7		•				258.2	526.6	529.4	526.6	•	255.2	256.0		259.7	262.0	5.495	566.4	268.1	268.4	568.4	267.2	266.2	. 49	0	261.7
DATA	SPEED OF SOUND KNOTS	5	634.4	633.9	632.4	630.8	629.3	627.7	626.2	9.429	623.1	622.8	621.5	620.6	619.7	618.4	617.1									. 409	3	'n	9.009	599.1
UPPER AIR DA 2790010704 HOLLOMAN TABLE VIII. (CC	DENSITY S GM/CUBIC METER	# 1	653.4	629.2	619.7	610.4	•	592.2			566.1	555.2	246.2	536.7	527.2	518.4	509.8	501.4	493.1	484.9	476.9	0.694	461.3	453.7	446.2	438.7	431.3	423.8	416.6	†•60 †
۴ د	REL . HUM. PERCENT	•	74.8	58.3	58.9	6.69	6.09	61.9	65.9	63.9	8.49	43.1	45.4	48.4	21.0	20.4	19.8	19.2	18.5	17.9	17.3	16.7	16.1	15.5	13.6**	**8·h				
T MSL	PERATURE DEWPOINT CENTIGRADE	-	-12.1				•	-19.5		-21.6	•	•	•	-27.6	-36.7	-38.0	-39.5	t.0t-	-41.6	-45.8	•	-45.3	-46.5	-47.8	8.64-	-59.1				
126.59 FEET 0820 HRS MDT	TEMPE AIR DEGREES (-7.6	1.8-	8.8	-10.0	-11.3	-12.5	-13.8	-15.1	-16.3	-17.6	-17.8	-18.8	-19.5	-20.1	-21.2	-22.3	-23.4	-24.5	-55.6	-56.6	-27.7	-28.8	-59.9	-31.0	-32.1	-33.2	1.46-	-35.5	-36.6
7 C F	PRESSURE MILLIBARS	507.2	1.764	478.2	468.	428.4	420.3	441.4	435.6	454.0	415.0	407.3	399.0	390.9	382.9	375.0	367.2	359.5	352.0	344.	337.5	330.5	323.6	516.9	310.4	303.6	297.0	290.5	284.2	278.0
STATION ALTITUD 6 OCT. 77 ASCENSION NO.	GEUMETRIC ALITIDE MSL FEET	19000.0	19500.0	20500.0	21000.0	71200.0	22000.0	22500.0	23000.0	23200.0	74000.0	24500.0	25000.0	72200.0	7600000	76500.0	27000.0	27500.0	28000.0	28500.0	29000 • 0	79500.0	2000000	0.00000	31000.0	31500.0	32000.0	32500.0	33000.0	33500.0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. *

					IABLE VIII.				
GEUMETRIC ALIITUDE MSL FEET M	PRESSURE MILLIBARS	TEMP AIK DEGREES	MPERATURE DEWPOINT S CENTIGRADE	REL.HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SI DEGREES(TN) K	SPEED KNOTS	INDEX OF REFRACTION
94000.0	271.9	-37.8			405.4	597.7	261.6	55.4	1.000090
34500.0	265.9	-38.9			395.5	596.2	263.3	56.5	.00008
0.00056	260.1	-40.1			388.7	594.8	265.6	58.1	.00008
35500.0	254.4	-41.2			382.1	593.3	267.2	62.1	1.000085
36000.0	248.8	-42.3			375.5	591.9	•	67.5	.00008
96500.0	243.1	-43.5			368.8	590.3		70.2	.00008
37000.0	237.5	1.44-			362.2	588.8	•	70.5	•
37500.0	232.1	-45.9			355.8	587.3	•		•
38000.0	226.8	-47.1			349.4	585.8	271.3	•	1.000078
38500.0	221.6	-48.3			343.2	584.2		66.5	1.000076
0.00066	216.5	h.6h-			337.2		270.7	6.79	1.000075
39500.0	211.5	-50.6			331.2		5.692	69.5	1.000074
0	200.	-51.8			325.3		267.7	7043	.00007
40500.0	202.0	-53.0			319.6		565.9	71.5	•
41000.0	197.2	-54.3			314.0		265.1	70.5	1.000070
41500.0	192.5	-55.8			308.5		564.4	69.5	1.000069
42000.0	187.9	-57.2			303.1		263.9	68.9	1.000068
0	183.4	-58.6			297.9		263.5	9.89	90000
43000.0	179.6	-60.1			292.7			68.9	1.000065
43500.0	174.1	-61.5			287.6		263.5	70.3	
0.00044	170.4	-62.7			282.1			71.7	•00000
0.00544	166.4	-63.9			276.7		564.4	71.5	
45000.0	162.1	-65.1			271.4		265.2	71.4	•00000
45500.0	158.0	-66.3			266.2		266.7	72.2	.00005
0.00094	154.1	-67.5			261.1		268.4	73.4	.00005
0.00594	150.3	-68.7			256.1		270.7	75.0	1.000057
47000.0	146.5	-69.5			250.6		273.6	77.2	.00005
47500.0	142.8	-70.3			245.2		276.3	79.2	.00005
48000.0	139.2	-70.0			238.6		279.0	•	0
48500.0	135.6	-60.5			2	0 444	301		

GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG	SOUND DIRECTION SPEED OF KNOTS DEGREES(TN) KNOTS REFRACTION	6.5 283	7.2 285.8 75.7 1.	285.7 69.6 1.00004	285.0 62.9 1.00004	282.1 57.3 1.	277.5 52.4 1	273.7 48.0 1	271.1 44.1 1.00004	268.5 40.2	54.2 269.7 35.2 1.000040	271.4 30.3	273.9 27.3	277.0 25.0	279.8 24.0	281.7 24.4	283.4 24.7	284.9 24.7	286.4 24.7	287.4 23.8	288.4	289.5 21.2	290.8	295.3 15.9	.0 303.9 12.2	.9 301.5 10.8	290.8 10.8	.8 280.9 11.2	.3 273.0 11.8 1.00002	.7 266.1 12.6 1	65.1 264.1 11.1 1.000023
UPPER AIR DATA 2790010704 HOLLOMAN TABLE VIII. (CONT)	REL.HUM. DENSITY SPEED PERCENT GM/CUBIC SOUN METER KNOTS	225.7 5	S	u)	(1)	נט	u)	(1)	u)	цŋ	180.7 5	u)	4)	u)	u)	α,	u)	۵,	u,	u) (4)	u)	(1)	u)	u,				ഗ	107.0 50	വ
26.59 FEET MSL 0820 HRS MDT	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-69.1	-68.6	-68.1	-68.5	0.69-	h·69-	6.69-	-70.3	-70.8	-70.8	-70.4	-70.1	-70.5	-71.0	-71.4	-71.9	-72.3	-72.8	-73.2	-/2-1	7.07-	569-	6.79-	-66.5	-65.1	0.49-	-63.7	-63.4	-63.1	-62.7
TITUDE 412	PRESSURE MILLIBAMS	132.4	128.9	125.0	155.4	119.5	116.3	113.4	110.5	107.7	104.9	102.3	1.66	97.1	94.0	92.2	89.8	87.5	85.3	83.1	2010	13.0	0.77	12.8	73.1	71.3	66.5	67.8	1.99	ŧ	62.9
STATION ALTITUDE 4126.59 FEE 6 OCT. 77 ASCENSION NO. 704 0820 HRS M	GEUMETRIC ALITUDE MSL FEET	0.00064	49500.0	0.00000	20200.0	21000.0	51500.0	0.00000	52500.0	0.00000	53500.0	0.000+0	24500.0	22000.0	55500.0	0.00095	0.00595	0.00076	0.00676	0.00080	0.0000	0.00060	0.00060	0.00000	0.00000	0.00010	0.00519	62000.0	62500.0		63500.0

GEODETIC COORDINATES 32.84865 LAT DEG 106.09965 LON DEG	INDEX OF REFRACTION		1.000022	1.000021	1.000021	1.000020	.0000			1.000018	1.000017	1.000017		1.000016	1.000016	1.000015	1.000015	1.000014	1.000014	1.000014	1.000013	1.000013	1.000013	1.000012	1.000012	1.000012	1.000012	1.000011	1.000011	.00001
GEODETIC 32-8 106-0	EED 10TS	8.3	5.8	5.5	4.5	0 0	1.7	1.4	1.1	1.7	2.5	3.4	4.6	0.9	6.5	7.1	7.4	7.4	8.7	6.6	10.7	11.9	11.4	10:3	9.5	8.6	8.0	7.4	6.7	0 * 9
	WIND DATA DIRECTION SP DEGREES(TN) KN	264.1	264.1	264.1	264.1	264.1	264.1	264.1	264.1	288.1	599.6	311.3	322.0	328.2	332.6	336.5	343.7	4.6	28.3	42.7	55.0	65.5	71.2	77.2	9.48	4.88	92.7	7.76	103.5	110.9
DATA 704 (CONT)	SPEED OF SOUND KNOTS	565.5	565.9	566.4	566.8	201.6	569.8	571.1	572.5	573.1	573.3	573.6	573.8	574.1	574.3	574.6	8.478	575.1	575.3	575.5	575.8	576.0	576.3	576.5	576.8	577.0	577.3	577.5		578.0
UPPER AIR DA 2790010704 HOLLOMAN TABLE VIII. (CO	DENSITY S GM/CUBIC METER	101.5	98.8	96.3	93.8	88.7			81.3	79.2	77.2	75.3	73.5	71.7	6.69	68.2	66.5	6.49	63.3	61.8	60.5	58.8	57.3	55.9	54.5	53.5	51.9	20.6	t.6t	48.2
O 11	REL.HUM. PERCENT																													
26.59 FEET MSL 0820 HRS MDT	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-62.4	-62.1	-61.8	-61.5	2.19-		-58.2	-57.2	-56.8	-56.6	-56.4	-56.2	-56.0	-55.8	-55.6	-55.5	-55.3	-55.1	-54.9	-54.7	-54.5	-54.3	-54.1	-54.0	-53.8	-53.6	-53.4	-53.2	-53.0
JUE 41	PRESSURE MILLIBAMS	61.4	59.9	58.4	57.0	200	52.9	21.0	50.4	7.64	48.0	40.7	45.8	1.44	43.0	45.0	41.0	40.0	39.6	38./	37.8	36.9	36.0	35.2	34.3	33.5	32.1	31.9	•	30.4
STATION ALTIT 6 OCT. 77 ASLENSION NO.	GEUMETRIC ALIITUDE MSL FEET	0.00040	0.00549	0.00000	0.0059	0.0000	67000.0	0.00570	0.00089	0.00589	0.00069	0.00569	70000-0	70500.0	71000.0	71500.0	72000-0	72500.0	73000.0	73500.0	74000.0	14500.0	15000.0	75500.0	76000.0	76500.0	17000.0	77500.0	000	78500.0

DETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG	INDEX OF REFRACTION		1.000010	1.000010	1.000009	1.000009	1.000000	1.000009	1.000008	1.000008	1.000008	1.000008	1.000008	1.000007	1.000007	1.000007	1.000007	1.000007	1.000007	1.000006	1.000006	1.000006		1.000006	1.000006	1.000006	1.000005	000	1.000005
GEODETIC 32.8 106.0	DATA SPEED N KNOTS	5.4	5.1	4	5.0		0.0	9,9	0.9	5.4	5.8	4.9	7.1	8.7	10.9	13.2	14.4	14.8	15.4	15.8	15.9	16.1	15,9	•	14.8	14.7	14.7	•	15.0
	WIND DA DIRECTION DEGREES(TN)	120.1	122.1	111.5	104.8	0.76	6.06	85.8	6.48	83.9	26.62	75.3	71.8	75.5	h•08	83.6	87.3	91.5	95.5	97.3	97.1	0.76	2.46	Ø	82.5	o	72.3		5
DATA 704 (CONT)	SPEED OF SOUND KNOTS	8	578.4	578.8	579.0	579.2	013.0	579.7																		585.2	585.7	586.1	586.5
UPPER AIR DA 2790010704 HOLLOMAN TABLE VIII. (CON	DENSITY GM/CUBIC METER	47.0	45.9	43.7	45.6	41.6	•	38.7	37.8	36.9	36.0	35.1	34.3	33.4	32.6	31.9	31.1	30.3	59.6	28.9	28.5	27.5	26.8	26.1	25.5	ţ.	24.3	23.7	3
TA	REL.HUM. PERCENT																												
ET MSL	TEMPERATURE R DEWPOINT EES CENTIGRADE																												
6.59 FE	TEM AIK DEGREES	-52.8	-52.7	-52.4	-52.3	-52.1	0.76-	-51.7	-51.6	-51.4	-51.3	-51.2	-51.0	-20.9	-50.7	-20.6	-50.4	-50.1	8.64-	4.64-	-49.1	-48.8	-48.5	-48.1	-47.8	-47.5	-47.1	-46.8	-46.5
ALTITUDE 4126.59 FEET 77 0820 HRS MDT NN NO. 704	PRESSURE MILLIBARS	29.1	29.0	27.1	27.0	500.	20.00	24.0	24.0	25.5	55.9	55.4	21.6					19.4	19.0	18.5	18.1	17.1	17.3	16.9	16.5	16.1	15./	15.4	15.0
STATION ALTITO OCT. 77 ASCENSION NO.	GEUMETRIC ALITUDE MSL FEET	79000.0	79500.0	80500.0	81000.0	41500.0	0.00000	83000.0	83500.0	84000.0	84500.0	82000.0	82200.0	86000.0	86500.0	87000.0	87500.0	88000.0	88200.0	89000.0	0.00568	0.00006	90500.0	91000.0	91500.0	92000.0	92500.0	93000.0	93500.0

GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG	INDEX OF REFRACTION	1.000005	1.000005	1.000005	1.000005	1.000005	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000004	1.000003
GEODETIO 32.0 106.0	SPEED KNOTS	15.0	1540	15.1	16.1	17.0	18:1	15.7	13.0	10.4	8.7	8.4	9.5					
	WIND DATA DIRECTION S DEGREES(TN) K	6.69	74.2	77.9	9.47	71.6	6.89	6.69	71.7	74.3	90.5	113.0	133.9					
DATA	SPEED OF SOUND KNOTS	586.9	587.4	587.5	587.7	587.8						588.7			589.2	589.3	589.5	589.6
UPPER AIR DATA 2790010704 HOLLOMAN TABLE VIII. (CONT)	DENSITY GM/CUBIC METER	22.5	22.0	21.5	21.0	20.5	20.0	19.5	19.1	18.6	18.2	17.8	17.4	17.0	16.6	16.2	15.8	15.4
ני	REL.HUM. PERCENT																	
ET MSL OT	TEMPERATURE R DEWPOINT EES CENTIGRADE																	
26.59 FE	TEM AIR DEGREES	-46.2	-45.8	-45.7	-45.6	-45.5	-42.4	-45.2	-45.1	-45.0	6.44-	8.44-	1-44-7	-44.5	t. ++-	-44.3	-44.2	-44.1
.TITUDE 412	PRESSUME TEMM AIM MILLIBAMS DEGREES	14./	14.3	14.0	13./	13.4	12.1	12.8	15.5	12.2	11.9	11./	11.4	11.1	10.9	10.0	10.4	10.2
STATION ALTITUDE 4126.59 FEET 6 OCT. 77 0820 HRS MDT ASCENSION NO. 704	GEUMETRIC ALIITUDE MSL FEET	94000.0	0.00546	95000.0	95500.0	0.00096	0.00596	97000.0	97500.0	98000.0	98500.0	0.00066	99500.0	1000001	100500.0	101000.0	101500.0	102000.0

GEODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
VELS 4	PEEC. HUM. 76. 62. 62. 62. 62. 62. 62. 62. 62. 62. 6	
MANDATORY LEVELS 2790010704 HOLLOMAN TABLE IX.	TEMPERATURE R DEWPOINT EES CENTIGRADE .9	
M -	AIR	144.0
MSL	FEET 5110. 6818. 10495. 10495. 12501. 14638. 12501. 14638. 12501. 19375. 22045. 28189. 28189. 31810. 35941. 40773. 43541. 40573. 64619. 68351. 73007. 73007.	102792.
ALTITUDE 4126.59 FEET 77 0820 HRS MDT NN NO. 704	(0)	10.0
STATION ALTITUDE 6 OCT. 77 ASCENSION NO. 7		

** Af LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SIGNIFICANT LEVEL DATA

WHITE SANDS TABLE X.

SIMILON ALTITUDE 3989.00 FLET MISL

0825 HRS MDT

ASCENSION WO. 6 ucT. 77

32.40043 LAT DEG 106.57033 LON DEG GEODETIC COORDINATES

DEGREES CENTIGRADE PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FELT

REL.HUM. TEMPERATURE

16.9

3989.0 4217.7

2.975

0.000

25.00 27.00 111.0

17.7 119.4 115.4 111.9 111.9

0.6190

5050

5098.4

9.6028

9643.2 10482.2

137.8

700.0 9999 .60.0 00000 461.3

40.8

6000

3016.4

2.9

-3.9 -7.7 -11.5 -2.8

-2.3

1041901

19359.2

15200.7

t.

-15.3 -19.4

-11.1

21404.4 22022.6 23115.1

24375.3

1000+ 5.685 3.015

430.8 6.604

450.1

25599.7 29754.8 30769.0 31110.2 51739.0 32840.6

26308.1

326.0 508.3

515.6

71.0 0.85 0.09

-24.4 -24.0 -25.0 -45.9

70.0

-18.2 -19.5 -23.3 -29.8 -31.7

-45.2 -33.9

> 500.0 0.057

200.0 0.001

-54.6 -70.5 -73.2 40651.0 46451.8 40016.4

53916.5 49619.3 51716.2

-70.5

127.3 6.101 156.3 114.3

BEST AVAILABLE

TES	W	DEG
DINA	LAT	LON
COOR	0043	7033
IC	· t	
GEODET	32	106

OAIA		
LEVEL	SAMUS	(CONT)
ANI	1	×
SIGNIFICANT LEVEL 2790020725	THM	TABLE X

STAFLON ALTITUDE 3989.00 FEET MSL 6 OLT. 77 ASCENSION NO. 723

REL.HOM.	PERCENT	
TEMPERATURE	AIR DEWPOINT	DEGRELS CENTIORACE
PRESSURE GEOMETRIC	ALTITUDE	
PPESSUR		MILLIBAR

-70.4	4.99-	-57.9	-55.3	-52.4	6.54-
61105.1	60322.8	67821.2	70302.3	80303.8	95759.8
0.01	65.50	20.0	36.0	20.0	14.5
	61105.1	61105.1	61105.1 63322.8 67821.2	61105.1 63322.8 67821.2 76362.3	70.0 61105.1 -70.4 62.5 60322.8 -66.4 50.0 67821.2 -57.9 50.0 70302.3 -55.3 20.0 80803.8 -52.4

	SIMITION ALITIONE 3989.00 FEE 6 UCT. 77 ASCENSION NO. 729	11100E 396	9.00 FEE 0825 HRS	l ∺SL MDT		UPPER AIR UN 2790020725 AHITE SANUS TABLE XI.	A 1 2 3		JEODETIC 32.4 106.3	ETIC COOKUINATES 32.40043 LAT DEG .06.37033 LON DEG
	GEOMETRIC ALITIONE MSC FEEI	PRESSORE MILLIBARS	TEMPE AIR DEORCES C	ERATURE UEWPOINT CENTIGRADE	REL HUM. PERCENT	DENSITY SOMICONSIC	SOUND KNOTS	WIND DATA UINECTION S DEOREES(IN) K	SPEED KN01S	INULX OF REFRACTION
	3989.0	833.0	17.71	9	95.0	1049.8	507.2	0.000	2.9	.00032
	4.000.0	833.5	17.8	15.9	4.40	1049.4	507.2		2.9	.00032
	4500.0	1.500	19.61	16.5	81.4	1024.0	669.4	212.5	1.7	1.000310
	0.0000	0.550	8.61	16.3	90.5	1005.8	9.699	171.9	t.t	1.000306
	0.0000	938.0	18.7	15.0	79.5	395.5	60001	103.5	7.5	1.000297
	0.0000	823.4	17.2	13.4	78.2	980.0	660.2	101.6		1.000288
	0.0009	838.1	15.3	11.3	17.2	468.5	664.3	102.4		1.000279
	7000.0	194.0	14.7	11.4	80.5	955.1	663.1	107.0		1.000275
	7500.0	180.6	13.4	11.4	85.2	0.046	662.1	174.1		1.000272
	0.0000	10003	12.3	11.3	8.69		661.1	180.1		1.000269
	0.0058	154.5	12.2	B.t	17.4		6.659	160.0	7.4	1.000255
	9.00.0	133.0	11.9	4.8	9.10	099.1	5.659	160.6	6.5	1.000240
•	0.0006	725.0	11.0	3.9	9.10	8.588	658.1	169.7	0.9	1.000235
	10000	115.4	10.0	3.4	03.3	872.8	657.0	199.9	6.5	1.000231
	0.00001	0.460	1.6	5.9	65.1	960.0	655.0	503.0	7.5	1.000227
	11000.0	690.0	8.1	2.3	9.90	846.9	654.7	410.4	9.3	1.000223
	0.00011	673.4	7.5	1.7	0.80	034.1	653.6	422.1	11.5	1.000219
	12000.0	1.100	0 t	1.1	69.5	421.4	652.5	2,000	14.1	1.000215
	15000.0	037.6	t :	0:-	72.5	796.7	650.3	558.5	18.2	1.000207
	13500.0	655.4	3.5	1	73.9	784.0	2.649	6.877	19.4	1.000204
	74000+7	613.8	2.0	-1.3	15.4	772.0	•	448.7	20.5	1.000200
	14500.0	0.760	1.7	-1.9	6.92	761.1	6.049	230.3	50.9	1.000196
	0.0000	291.3	0	-2.5		749.0	640.8	231.9	21.3	1.000193
	15500.0	560.3	•••	0.5-	:	738.4	0.++0	231.7	22.0	1.000169
	100001	206.5	-1.4	-3.5	65.5	727.4	643.3	431.4	22.7	1.000186
	1000001	554.5	-2.4	0.4-	6	716.5	642.0	231.5	22.5	1.000183
	17000.0	2.740	-5.5	0.4-	ċ	1.007	6.049	251.5	22.3	3
	17500.0	55/1.5	1.4-	-5.2	:	3	•		21.4	0
	100000	527.0	0.6-	-2.9	93.3	682.7	6.009	430.5	21.3	-

UPPLR AIR LATA 2790020725 WHITE SANDS TABLE XI. (CONT)

725 VLS CONT)

GEODETIC COORDINATES 32.40043 LAT DEG 106.57033 LON DEG

1.000163 1.000170 1.000166 ..000156 ..000153 .000149 1.000144 1.000141 1.000138 1.000135 1.000132 1.000129 1.000127 1.000125 1.000121 1.000117 1.000115 1.000113 1.000111 1.000109 1.000107 1.000106 1.000104 1.000101 1.000099 9600000 .0000096 1.000095 1.000053 **REFRACTION** INCEX SPEED WIND DATA DEGREES (IN) DIRECTION 245.5 0.1+2 241.0 9.407 252.1 253.5 203.1 2.047 20503 59.60 243.2 258.8 6.007 252.0 6.457 9.407 250.0 20001 202.1 258.1 259.0 20105 40467 250.0 40107 20105 4.007 SPEED OF 2.429 4.419 605.7 635.7 632.2 630.2 628.3 626.3 622.3 622.2 621.0 618.2 615.0 613.2 612.0 610.8 609.6 606.4 607.5 606.8 603.6 9.009 633.4 030.0 623.3 4.669 SOUND KNOTS 0.050 010.0 2.665 591.5 583.4 574.5 565.5 556.0 545.0 529.7 523.3 630.0 620.0 505.5 480.1 061.1 488.4 463.4 454.4 439.0 5.040 4.944 432.7 REL.HUM. DENSITY
PERCENT GM/CUBIC
METER 3.6** **6.6 996.0 977.0 997.0 993.8 775.8 773.8 571.5 591.9 600.00 600.00 600.00 600.00 600.00 600.00 600.00 600.00 600.00 DEGREES CENTIGRADE LUIOTATO -12.0 -15.1 -17.1 -8.0 -10.7 -19.0 -51.7 -7.2 8.6-6.07--31.1 -47.2 -43.0 -48.8 -22.9 -23.0 9.9--45.7 -24.3 -24.0 6.44-4.94--44.1 I CMPCKATURE -11.9 -11.2 c.00--7.6 -8.5 -17.4 -18.3 -19.3 4.72--30.0 HIH 1.9-1.6--13.4 -56.4 -10.3 -15.0 -18.2 -21.4 -25.4 -5.6 -16.3 -23.5 -24.5 -28.5 -69.3 -31.4 -33.1 1.46-MILLIBARS PRESSURL 7.164 c.18+ 0.062 2969 244.0 537.4 330.3 123.4 510.5 141.0 503.1 516.9 D07.00 476.0 1.80 459.0 500.0 132.0 +15.0 407.4 0.660 290.3 334.9 375.0 20100 352.0 39.5 290.5 424.1 SEUGETRIC 200000 0.00002 -1000Tz 0.00012 4400000 25000.0 0.000+> 27500.0 6-00062 32500.0 0.0000 0.00061 19500-5 22000.u 23500.0 D-000+7 C20000-0 0.00002 200000 200000 47300.0 2800000 U-00c87 -9000ez 0.00000 0.00000 31000.0 0.00016 22000-3 33000-0 MSL FEET AL 111 UDE

WAS USED IN THE INTERPOLATION. AT LEAST ONE ASSUMED RELATIVE HUMIOITY VALUE

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SIATION ALTIIN b out. 77 ASCENSION NO.	11100c 390	STATION ALTITUDE 3989.00 FEET MSC 6 OLT. 77 ASCENSION NO. 725		UPPER AIR DATA 2790020725 WHATE SANDS TABLE XI. (CONT)	CONT)		GEODETIC 32.40 106.37	ETIL COORDINATES 32.40043 LAT DEG 06.37033 LON DEG
GEUMETRIC ALITIUE MSC FEET	PRESSORE MILLIBARS	IEMPERATURE AIR DEMPOINT DEGREES CONTIGRADE	REL HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DA	DATA SPEED N KNOTS	INDEX OF REFRACTION
0.00050	27/04	-37.5		410.1	596.1	6.007	50.4	1.000091
0.00040	4.172	-38.5		405.8	590.8	50407	52.3	
0.00000	4.602	-29.5		595.7	595.5	203.5	54.3	•
0.00000	459.0	-40.5		388.7	2.465	202.1	58.5	1.000087
0.00000	2555.4	-41.5		381.0	595.9	7.197	62.7	1.000065
	7+8+7	-42.0		375.1	591.5		63.5	1.000084
0.00000	545.5	-43.9		368.5	589.9	5.505	63.7	1.000082
	237.0	2.54-		364.1	589.2	203.7	61.3	1.000081
	231.5	-46.5		355.0	586.5	5000	58.8	1.000079
28000·0	250.6	-47.0		349.6	584.9	6.007	60.5	1.000078
0.00080	221.U	0.64-		343.6	583.2	2,097	62.7	1.000077
0.00060	215.4	-50.5		337.0	581.5	7.007	6.49	1.000075
0.00000	711.0	-51.0		331.8	579.8	0.907	67.0	.0000
40000+	7.007	-52.9		320.1	578.1	50202	9.99	1.000073
0.0000+	501.4	7.46-		320.5	570.4	8.497	6.49	1.000071
*1000·c	190.0	-25.0		314.7	574.7	704.1	63.0	.0000
0.0001+	8.161	6.05-		308.9		263.5	61.2	1.000009
45000.0	187.1	-28.3		503.5		263.1	61.8	1.000068
45200.0	182.5	1.65-		297.8		6.797	63.4	1.000066
42000.0	1/8.0	6-10-		292.4		5.497	62.6	1.000065
4.0000+	1/3.6	-02.4		287.0		9.997	64.1	.00006
7.000++	10%.4	-63.8		281.8	563.7	508.4	63.9	1.000003
0.000++	7.691	7.50-		276.8	561.9	270.2	63.6	.00006
450000.0	101.6	C.00-		271.8	560.0	271.3	9.49	.0000
45560.0	157.0	-67.9		6.997	550.1	4.272	65.7	.0000
40000.0	155.4	-69.3		62.	556.3	8.472	66.3	1.000058
400000	144.0	-70.0		257.3	554.5	277.1	67.0	.00000
47000.0	140.0	-71.4		251.6	555.3	4.627	67.1	3
47500.0	142.1			746.4	552.1		67.2	.0000
48000.0	136.4	-73.2		241.1	550.9	<83·1	68.4	1.000054

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STATEON ALTITE 6 OCT. 77 ASCENSION NO.	STATEON ALTITUDE 3949.00 FEET MSL 6 OLT. 77 ASCENSION NO. 725	39.00 FEET	MS_ DT		UPPLE AIR UAT 2790020723 WHITE SANLS TABLE XI. (CONT)	UATA (2.) (1.5.)		32.4 32.4 106.3	JETIC COORDINATES 32.40043 LAT LEG 106.37033 LON DEG
GEOMETRIC ALITIUDE MSC PEET	PRESSURE FILLIDARS	TEMPE AIR DEGREES U	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF COUND KNOTS	WIND DATA DIRECTION S DEGREES(TN) K	SPEED KNOTS	INDEX OF REFRACTION
48500.0	134.9	-71.9			233.5	552.7	4.497	9.69	1.000052
49000		-70.6			20.	n	204.5	0.99	1.000050
19500		7.60-			7)	S		62.2	1.000049
0.00000		2.69-			213.2		283.3	56.8	1.000047
0.00000		9.60-				555.9	282.0	9.64	1.000046
0.00010		-70.0			203.3	555.3	279.0	45.4	1.000645
0.00010	115.0	-70.3			198.5		6.572	38.0	1.00004
0.00020	112.0	-71.1			194.2		471.5	35.0	1.000043
0.00020		-72.2			7.061		268.7	33.0	1.000042
0.00000	100.9	-73.2			186.5		200.7	31.7	1.000041
0.00000		-74.3			182.4		265.8	30.8	1.000041
0.000#0	7	1.47-			178.1		5007	30.4	1.000040
0.000+0		-73.2			172.2	550.8	207.3	30.1	1.000038
550000		-73.3			167.8		268.7	30.4	1.000037
0.00000		-73.4			163.6		270.1	30.7	1.000036
0.00000		-73.5			159.4		506.69	31.0	1.000035
		-73.0			155.3		569.6	31.4	1.000035
0.00UZ		-73.6			151.4		272.7	32.0	1.000034
0.00676		-73.7			147.5		270.9	32.8	1.000033
		-73.8			145.6		281.4	29.7	1.000032
0.00396		-73.2			139.7		2000	22.3	1.000031
		-72.1			135.7		798.4	15.6	1.000000
0.00560		-72.2			131.9		493.5	9.5	1.000029
0.00000		-71.6			128.2		272.1	3.7	1.000029
C.30c02		-71.1			124.5	3)	204.1	7.1	1.000028
		-70.5			121.0	(L)	202.5	11.0	1.000027
01200.0		1.69-			117.5	נט	200.1	12.2	1.000026
7 62000.0	6009	-c8.8			114.0	u)	271.8	12.2	1.000025
0.00000	.69	6.20-			110.6	558.	4.462	12.4	1.000025
1 63000.0	0.00	-67.0			107.4	വ	2.212	•	1.000024

.1 - 1	69.00 FEET MSC 0825 HRS MDT	r en	JPPER AIR 27900207 WHITE SAN ABLE XI. (CO	CATA CO CO CO CO CO CO CO CO CO CO CO CO CO	0	Ŭ,	DETIC COORDINATES 32.40043 LAT DES 106.37033 LON DES
AIA	1	PERCENT	GM/CUBIC	SOUND	UIRECTION	SPEED	OF
MILLIBARS DEGREES CENTIGRADE	GRADE		METER	Kivots	CEGREES (IN)		HEFRACTION
1.00- 0.70			7.401		270.7	12.4	-0000-
60.4 -05.1			101.2		475.0	7.5	1.000023
59.0 -04.2			6.96		795.0	2.8	1.000022
			95.4		2.420	1.7	1.000021
			92.7		7.140	1.6	1.000021
			0.06		310.3	2.0	
			87.4	560.2	280.0	t.3	1.000019
			84.0		8.772	9.9	1.000019
			32.5		207.7	4.3	1.000018
			80.5		310.0	2.3	1.000018
			78.5		340.8	1.9	1.000017
			76.3		531.4	1.9	1.000017
40.1 -57.5			74.5	572.1	321.5	1.9	1.000017
			72.6		3+.5	2.3	1.000010
			40.6		57.9	4.2	1.000016
			69.1		00.1	1.0	1.000015
0.22-			4.79		1000	10.2	1.000015
7.001			0.70		6.07	111.3	1.00001
			62.0	573.3	71.1	6.6	1.000014
			61.1		71.5	8.4	1.000014
37.1 -56.4			59.6		73.7	6.6	1.000013
36.2 -50.5			58.1		77.4	6.4	1.000013
35.3 -56.1			50.7		83.5	3.5	1.000013
			55.3		61.5	0.4	1.000012
33.1 -55.9			54.0		80.1	t.t	1.000012
			52.7		78.9	4.7	1.000012
			51.4	വ	70.5	0.4	1.000011
			50.1	574.	73.0	3.3	1.000011
30.0 -55.4			46.9	574.9	69.3	2.8	1.000011

STATION ACTITIOD 0 Oct. 77 ASCENSION NO.	.1110DE 398	SINITON ALITIODE SYNY.OU FEET MSL O OLT. 77 ASLENSION NO. 723		UPPLE AIR UATA 2790020725 WHITE SANUS TABLE XI. (CONT)	OATA 725 405 CONT)		0E0DETIC 32.4 100.3	DETIC COORCINATES 32.40043 LAT DEG 106.37033 LOM DEG
GEVMETRIC ALLIIUDE MSC FEET	PRESSURL	TEMPERATURE AIK DEKPOINT UEGREES CENTIGRADE	REL-HUM. PERCENT	DENSITY GM/CUBIC METER	SCUND KNOTS	"IND DATA DIRECTION S DEGREES(IN) A	SPEED KNOTS	INDEX OF REFRACTION
0.00681	29.82	-55.3		47.7	575.1	73.5	3.6	1.000011
0.00067	29.1	1.00-		0.04	575.5	76.0	3) d	1.000010
0.00000	21.0	-54.7		10.11	575.7	73.8	7.6	1.000010
0.00000	27.1	9.45-		43.2	570.0	79.5	9.3	1.000010
61000.0	26.0	+.+6-		42.5	576.2	90.0	11.0	1.000009
0.00010	25.8	7.49-		•	570.4	79.0	•	1.000009
0<0000	25.4	-54.1		40.1	570.6	79.6	9.5	1.000009
0.5500.0	24.0	53.9		39.1	576.9	79.3		1.000009
0.00000	24.5	1,55.1		30.00	577.3	7.67	0 4	1.000008
0.00000	22.3	-53.4		36.4	5.77.5	77.5	8	1.000000
0.000+0	52.4	-53.2		35.5	577.8	78.3	8.5	1.000008
0.00000	21.9	-53.0		34.6	573.0	19.6	9.3	1.000008
0.00000	21.3	-52.9		33.0	574.2	7.00	10.1	1.000008
96000.0	20.8	-52.7		32.9	570.4	9.00	10.7	1.000007
0.00000	7.02	-52.5		32.1	576.7	1.62	11.2	1.000007
0.00070	19.9	-52.3		31.3	575.0	77.0	11.6	1.000007
0.00678	19.4	-21.8		30.0	579.0	70.3	12.0	1.000007
000000	19.0	-51.3		29.8	560.4	19.4	12.1	1.000007
0.00080	10.5	6.05-		29.0	5.00.8	90.9	12.2	1.000006
0.00060	19.1	-50.4		28.3	561.5	65.59	12.3	1.000006
0.00560	17.1	6.64-		27.6	562.1	83.0	12.4	1.000006
0.00004	17.3	1.61-		20.9	502.7	83.1	12.5	1.000006
JU0000	10.7	0.61-		26.4		63.1	12.5	1.000006
21000.0	10.5	-48.0		25.0	583.			1.000000
71500.0	10.1	-49.0		54.9	584.5			1.000006
72000.0	15./	-47.5		24.3	5.633			1.000005
75500.0	10.4	-47.1		25.7	4)			1.000005
93000.0	15.0	9.94-		4)				1.000005

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	INDEX OF REFRACTION	1.000005
32. 32. 100.	WIND DATA UIRECTION SPEED	
2790020725 2790020725 WHITE SANDS TABLE XI. (CONT)	ERATURE REL.HUM. DENSITY SPEED OF MIND DATA DEWPOINT PERCENT GM/COBIC SOUND DIRECTION SPEED CENTIGRADE METER KNOTS DEGREES(IN) KNOTS	22.5 587.0
STATION ALTITUDE 3989.00 FEET MSL 6 OCT. 77 0825 HRS MDT ASCENSION NO. 725	AIR DEGREES	14./ -46.1
STATION ALTITUDE 39 6 OCT. 77 ASCENSION NO. 725	GEOMETRIC PRESSURE ALLITUDE MSE FEET MICLIBARS	93500.0

MANDATORY LEVELS 2790020725 WHITE SANDS TABLE XII.

SEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DES

UINECTION SPEED DEGREES(IN) KNOTS		70.5 12.0
REL . HUM.	20. 72. 71. 77. 76. 76.	
TEMPERATURE R DEWPUINT EES CENTIGRADE	110 110 1110 1110 1110 1110 1110 1110	
A1 De 6R		156.4
OPOTENTIA FEET	56.97. 66.92. 104.82. 124.87. 140.82. 169.07. 196.66. 21772. 258.91. 434.66. 460.33. 726.37. 726.37.	07185. 93368.
PRESSURE GEOPOIENTIAL	85000000000000000000000000000000000000	20.0